

**Commonwealth of Kentucky**  
**Division for Air Quality**

**REVISED PERMIT APPLICATION SUMMARY FORM**

Completed by: Frough Sherwani

GENERAL INFORMATION:

Name:	Eastern Kentucky Correctional Complex
Address:	200 Road to Justice, West Liberty, Kentucky
Date application received:	September 26, 2008
SIC/Source description:	9223, Correctional
Source ID #:	21-175-00019
Source A.I. #:	3203
Activity #:	APE20080001
Permit number:	F-06-019 R1

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
X_Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

**EMISSIONS SUMMARY:****Existing Source:**

<b>POLLUTANTS</b>	<b>POTENTIAL EMISSIONS (TPY)</b>	<b>ACTUAL EMISSIONS<sup>1</sup> (TPY))</b>	<b>ALLOWABLE EMISSION (TPY)</b>
<b>Carbon Monoxide (CO)</b>	84.10	13.40	NA
<b>Dichloromethane*</b>	22.17	3.57	9.0
<b>Nitrogen Oxides (NO<sub>x</sub>)</b>	74.3	11.6	NA
<b>PM10/PM</b>	84.55	13.45	NA
<b>Sulfur Dioxide (SO<sub>2</sub>)</b>	20.05	3.39	NA
<b>VOC</b>	17.1	2.75	NA
<b>Combined HAPs**</b>	22.17	3.57	22.5

**Emissions from Revisions 1:**

<b>POLLUTANTS</b>	<b>POTENTIAL EMISSIONS (TPY)</b>	<b>ACTUAL EMISSIONS (TPY))</b>	<b>ALLOWABLE EMISSION (TPY)</b>
<b>Carbon Monoxide (CO)</b>	1.81	NA	NA
<b>Nitrogen Oxides (NO<sub>x</sub>)</b>	8.42	NA	NA
<b>PM10/PM</b>	0.6	NA	NA
<b>Sulfur Dioxide (SO<sub>2</sub>)</b>	0.56	NA	NA
<b>VOC</b>	0.67	NA	NA

**Source wide Emissions after modification (Revision 1):**

<b>POLLUTANTS</b>	<b>POTENTIAL EMISSIONS (TPY)</b>	<b>ACTUAL EMISSIONS<sup>1</sup> (TPY))</b>	<b>ALLOWABLE EMISSION (TPY)</b>
<b>Carbon Monoxide (CO)</b>	85.91	13.40	NA
<b>Dichloromethane*</b>	22.17	3.57	9.0
<b>Nitrogen Oxides (NO<sub>x</sub>)</b>	82.72	11.6	NA
<b>PM10/PM</b>	85.15	13.45	NA
<b>Sulfur Dioxide (SO<sub>2</sub>)</b>	20.61	3.39	NA
<b>VOC</b>	17.77	2.75	NA
<b>Combined</b>	22.17	3.57	22.5

POLLUTANTS	POTENTIAL EMISSIONS (TPY)	ACTUAL EMISSIONS <sup>1</sup> (TPY))	ALLOWABLE EMISSION (TPY)
<b>HAPs**</b>			

1. Actual emissions are from the Kentucky Division for Air Quality's 2007 Emissions Inventory report.

\* The source has accepted a facility-wide cap on annual individual HAP emission of no more than 9 tons per rolling 12-month period.

\*\* The source has accepted a facility-wide cap on annual combined HAPS emissions of no more than 22.5 tons per rolling 12-month period

### **Revision 1 (Minor Revision):**

On September 26, 2008, the Division received an application from the source for a minor revision to their conditional major permit F-06-019.

With this application the source is requesting to accomplish the following:

1. Provide the Division with a current inventory of air emissions source;
2. Adding two emergency diesel generators which already exist at the source but was not included in the permit F-06-019 issued on October 16, 2006;
3. Standardize the owner and operator status of each Department of Corrections facilities in Kentucky.

The current source wide emission allowable are 9.0 and 22.5 tons per rolling 12-month period for a single HAP and combined HAPs respectively. These allowable will remain the same.

### **SOURCE DESCRIPTION:**

See Statement of Basis

### **EMISSIONS AND OPERATING CAPS DESCRIPTIONS:**

Eastern Kentucky Correctional Complex will be subject to source wide emission caps of 9.0 tons per rolling twelve-month total for single Hazardous Air Pollutant (HAP) and 22.5 tons per rolling twelve-month total for combined HAPs. These emission caps will preclude applicability of 40 CFR 63.40 to 63.56 (Subpart B), "Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Sections 112(g) and 112(j)". The emission caps will also preclude applicability of 40 CFR 63.7480 to 63.7575 (Subpart DDDDD), "National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters".